

FIG. 1

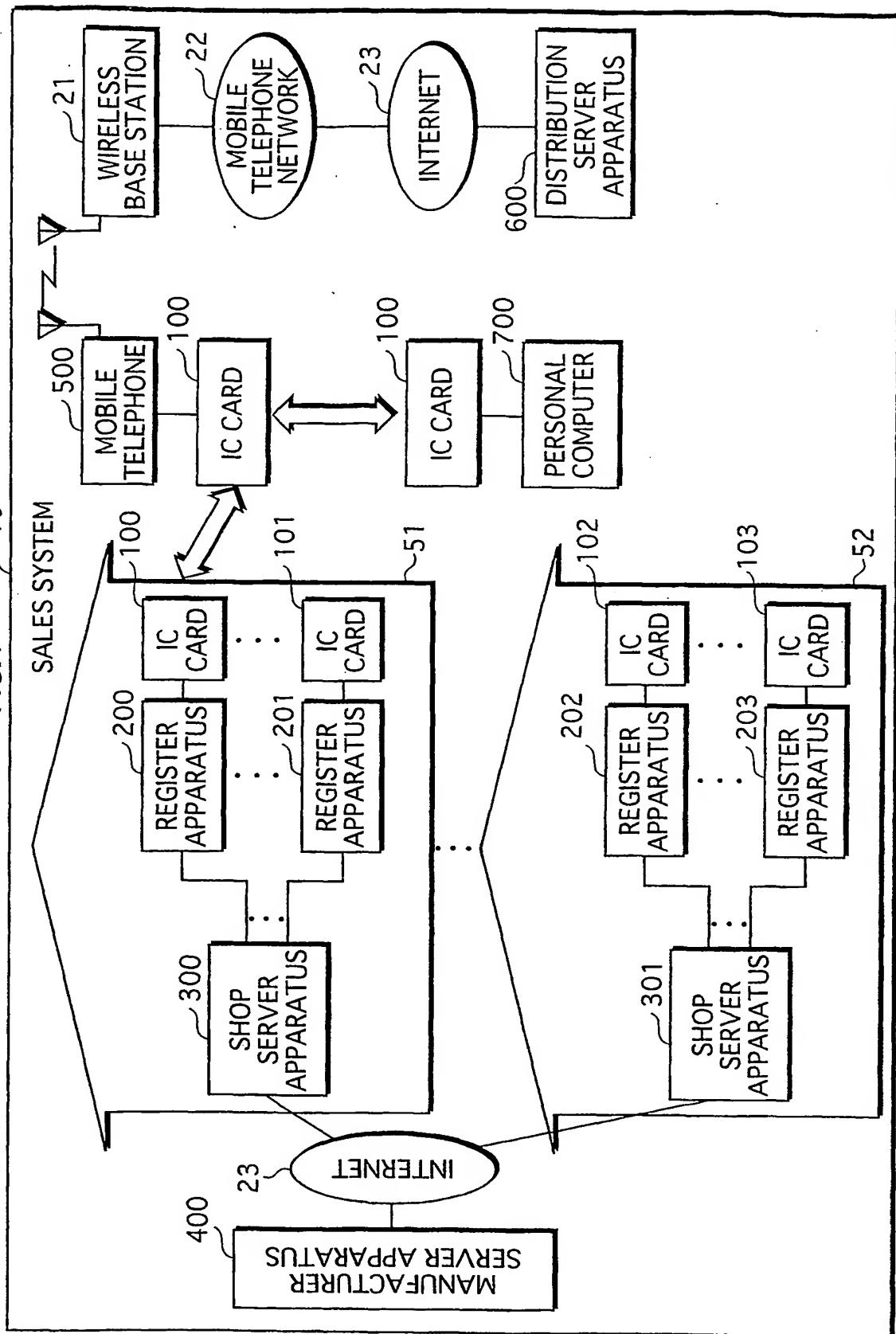
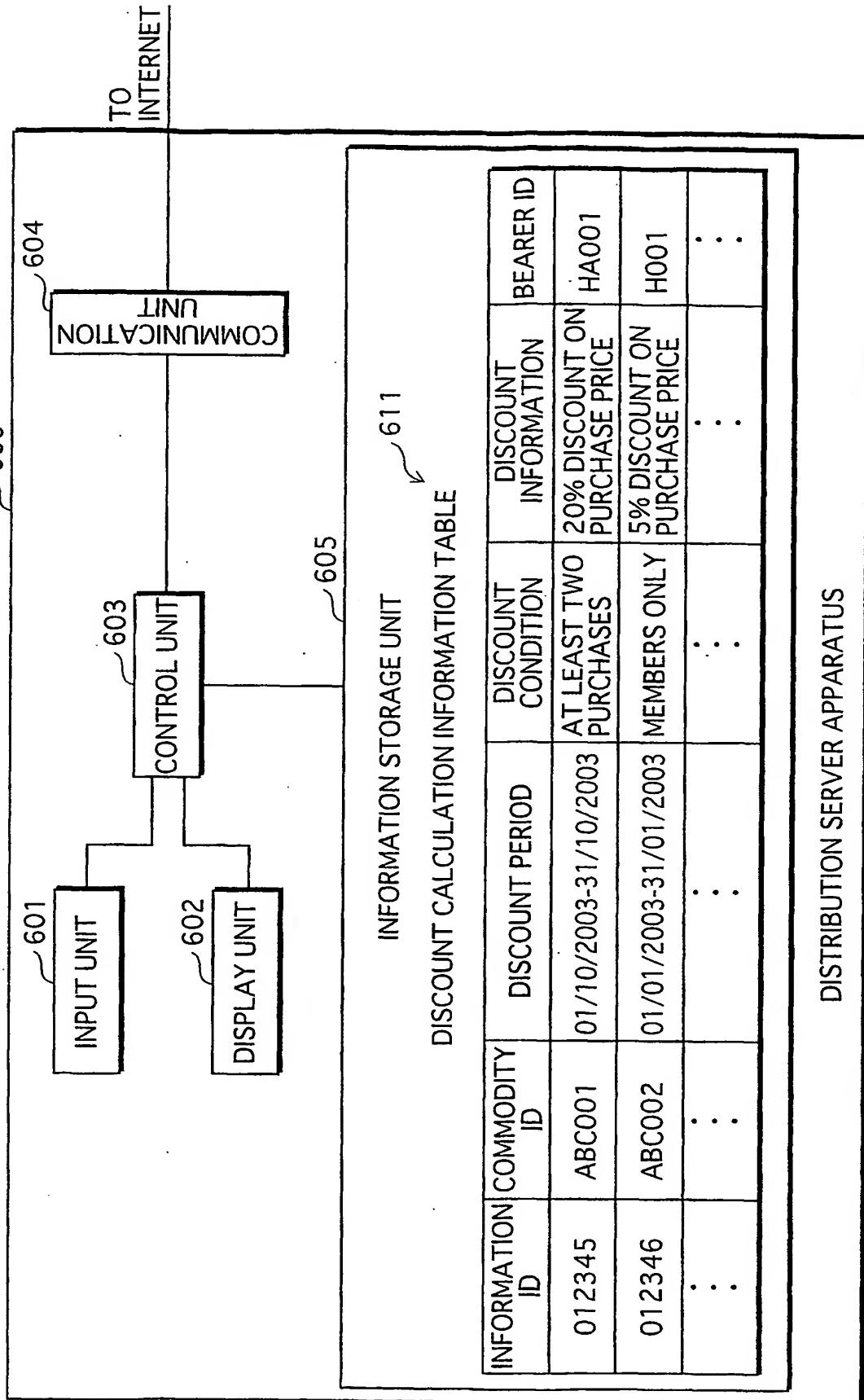
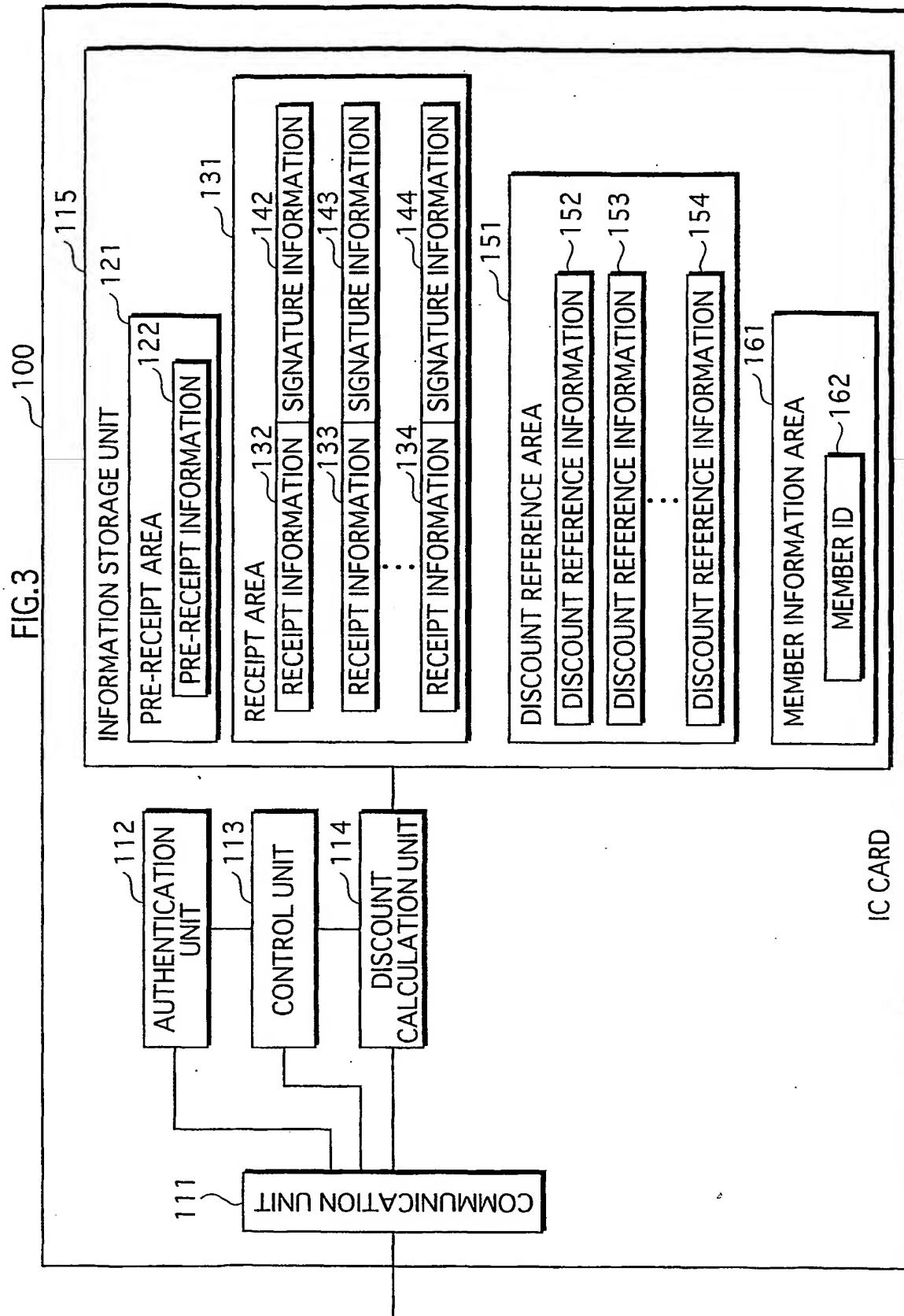


FIG.2





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FIG.4

PRE-RECEIPT INFORMATION

122

PRE-RECEIPT SEGMENT		PRE
SELLER ID		H001
SHOP ID		HA001
RECEIPT ID		R23456
SELLING TIME/DATE		18:31 17/01/2003
REGISTER ID		REG01
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC001
	UNIT PRICE	¥100
	NUMBER OF UNITS	10
	TOTAL PRICE OF COMMODITIES	¥1000
	TAX	¥50
	MANUFACTURER ID	M001
	BEARER ID	HA001
	DISCOUNT FLAG	3: DISCOUNT NOT APPLIED
.		.
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC002
	UNIT PRICE	¥200
	NUMBER OF UNITS	10
	TOTAL PRICE OF COMMODITIES	¥2000
	TAX	¥100
	MANUFACTURER ID	M001
	BEARER ID	M001
	DISCOUNT FLAG	1: DISCOUNT NOT APPLICABLE
	OVERALL TOTAL AMOUNT	¥3150

FIG.5

RECEIPT INFORMATION

132

SELLER ID	H001
SHOP ID	HA001
RECEIPT ID	R23001
SELLING TIME/DATE	18:30 10/01/2003
REGISTER ID	REG02
COMMODITY SELLING INFORMATION	COMMODITY ID
	ABC001
	UNIT PRICE
	¥100
	NUMBER OF UNITS
	15
	TOTAL PRICE OF COMMODITIES
	¥1500
	TAX
	¥75
COMMODITY SELLING INFORMATION	MANUFACTURER ID
	M001
	BEARER ID
	HA001
	DISCOUNT FLAG
	2: DISCOUNT APPLIED
	COMMODITY ID
	ABC002
	UNIT PRICE
	¥200
COMMODITY SELLING INFORMATION	NUMBER OF UNITS
	15
	TOTAL PRICE OF COMMODITIES
	¥3000
	TAX
	¥150
	MANUFACTURER ID
	M001
	BEARER ID
	M001
OVERALL TOTAL AMOUNT	DISCOUNT FLAG
	1: DISCOUNT NOT APPLICABLE
OVERALL TOTAL AMOUNT	
¥4725	

FIG.6

DISCOUNT REFERENCE INFORMATION

152

INFORMATION ID	012345
COMMODITY ID	ABC001
DISCOUNT PERIOD	01/10/2003-31/10/2003
DISCOUNT CONDITION	AT LEAST TWO PURCHASES
DISCOUNT INFORMATION	20% DISCOUNT ON PURCHASE PRICE

DISCOUNT REFERENCE INFORMATION

153

INFORMATION ID	012346
COMMODITY ID	ABC002
DISCOUNT PERIOD	01/01/2003-31/01/2003
DISCOUNT CONDITION	MEMBERS ONLY
DISCOUNT INFORMATION	5% DISCOUNT ON PURCHASE PRICE

FIG.7

DISCOUNT AMOUNT INFORMATION

171

SELLER ID	H001
SHOP ID	HA001
RECEIPT ID	R23456
SELLING TIME/DATE	18:31 17/01/2003
REGISTER ID	REG01
COMMODITY SELLING INFORMATION	
COMMODITY ID	ABC001
UNIT PRICE	¥100
NUMBER OF UNITS	10
TOTAL PRICE OF COMMODITIES	¥1000
TAX	¥50
MANUFACTURER ID	M001
BEARER ID	HA001
INFORMATION ID	012345
TOTAL DISCOUNT AMOUNT	¥ 200

FIG.8

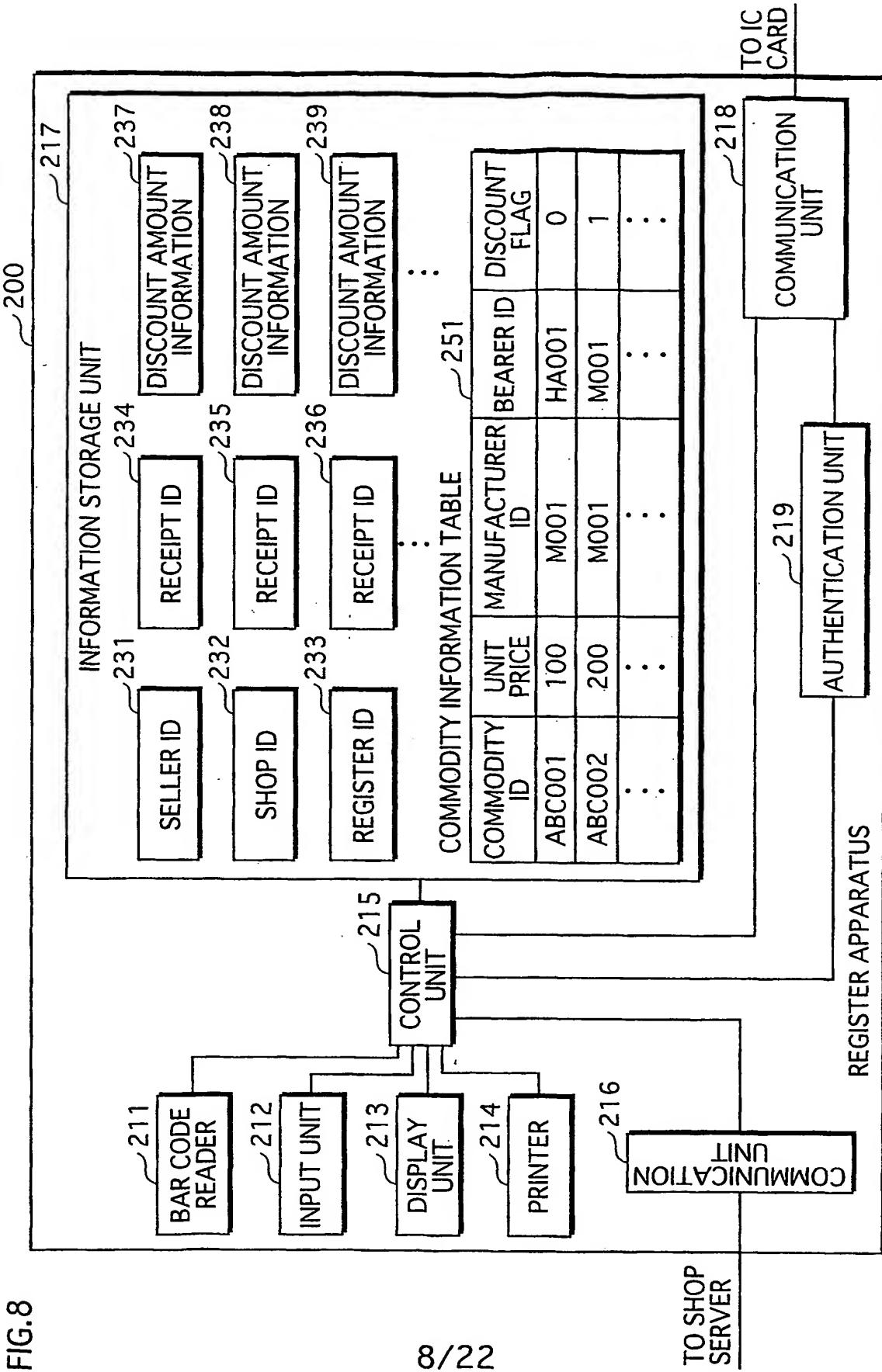


FIG.9

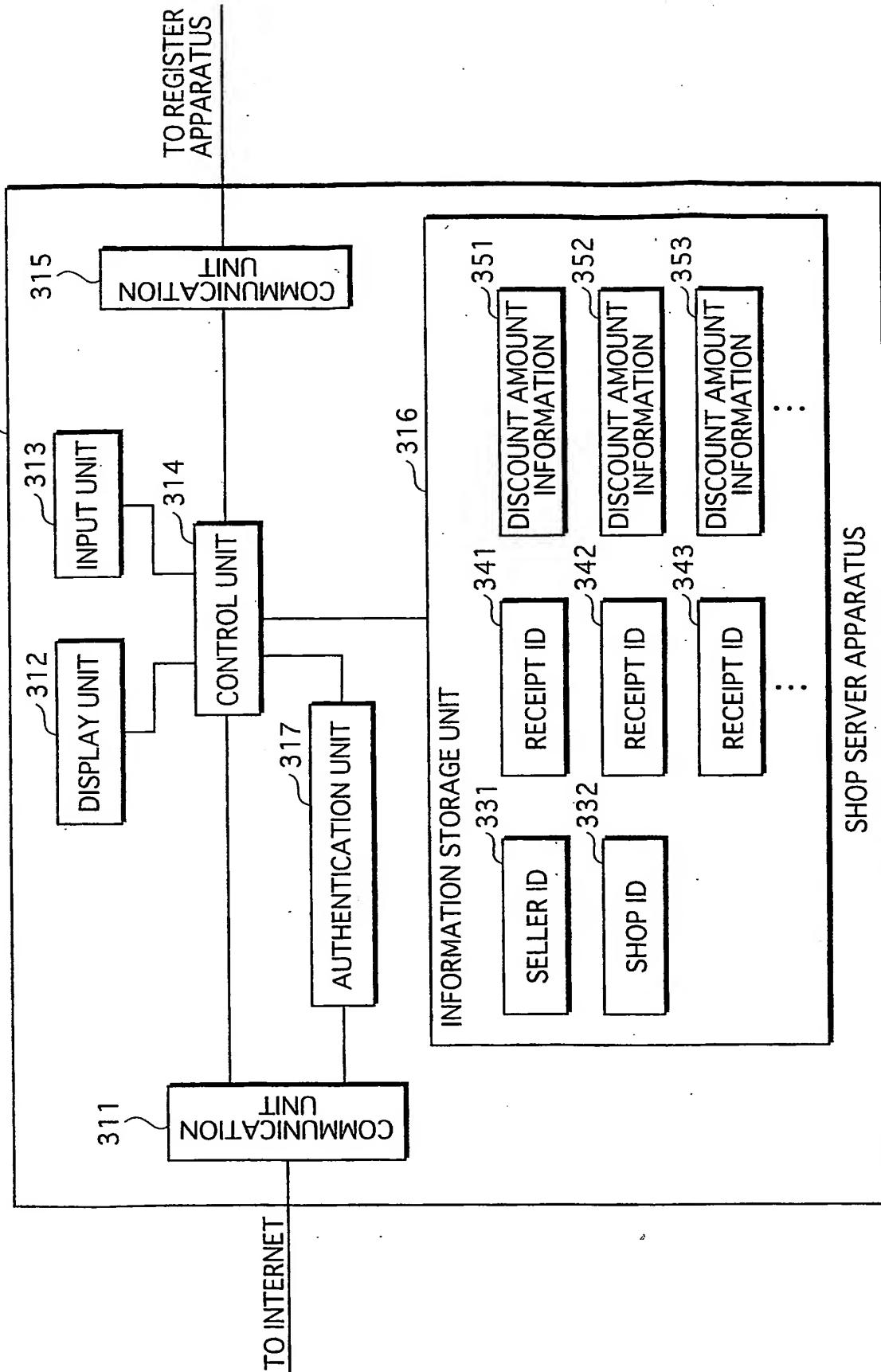


FIG.10

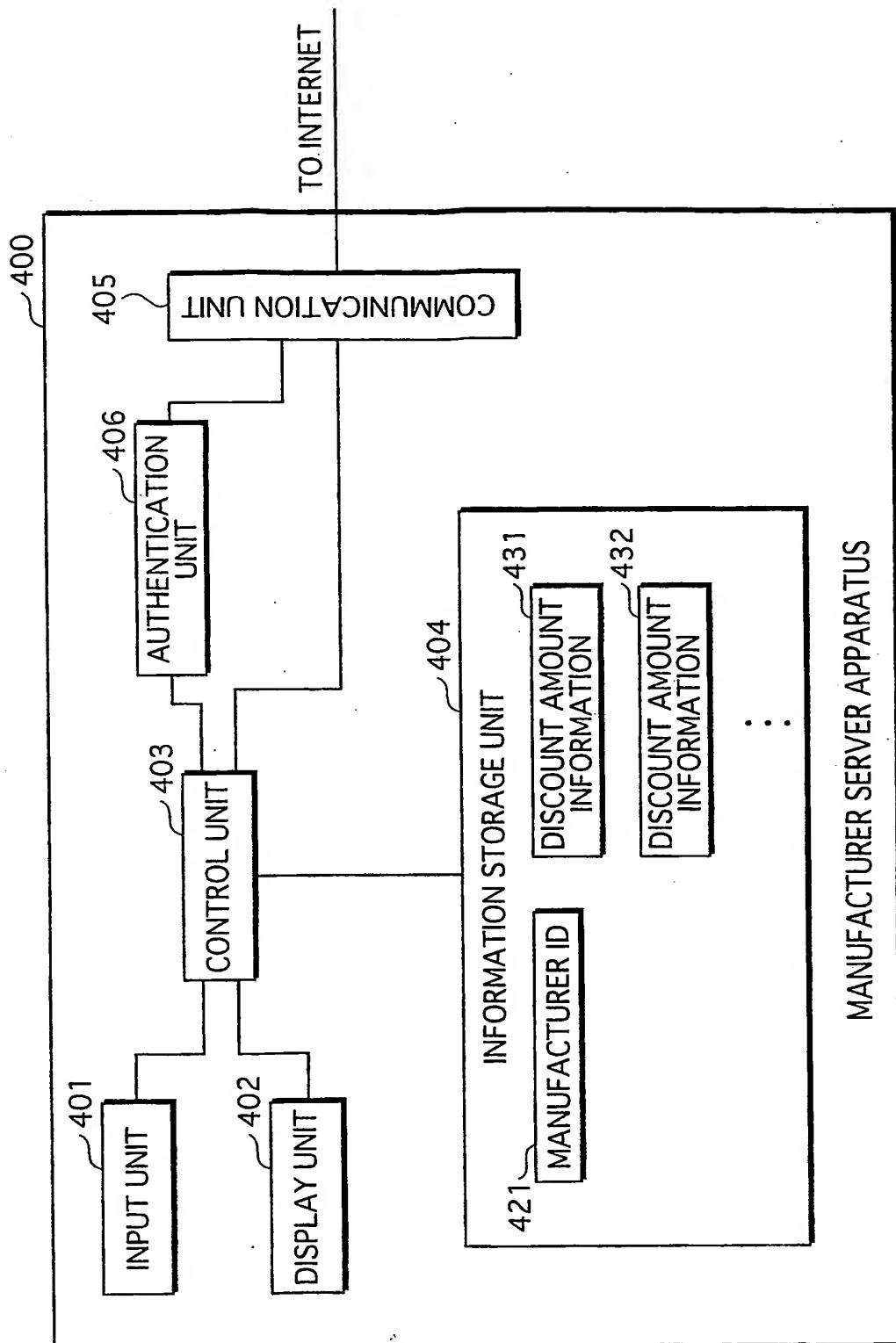


FIG.11

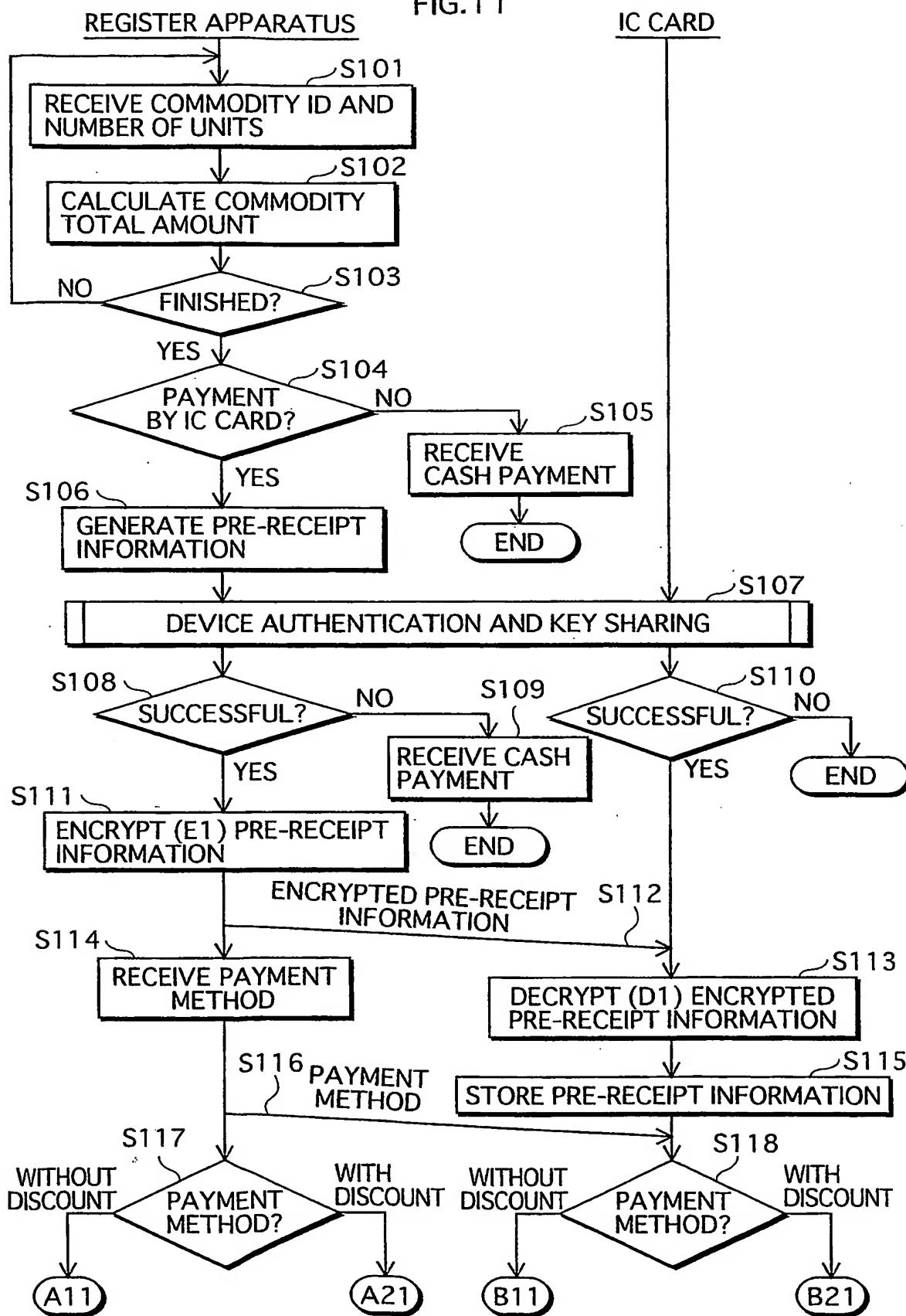


FIG.12

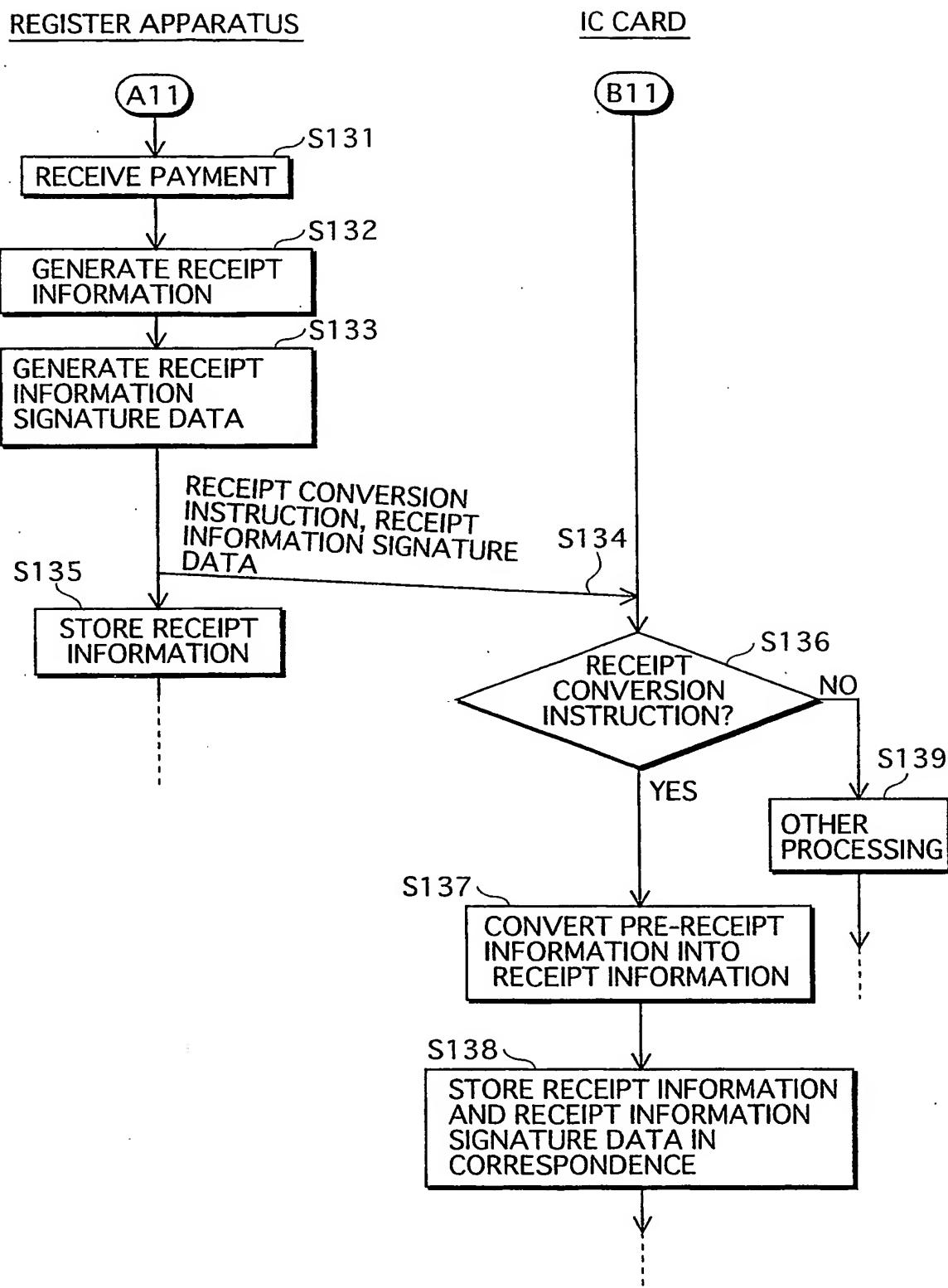


FIG.13

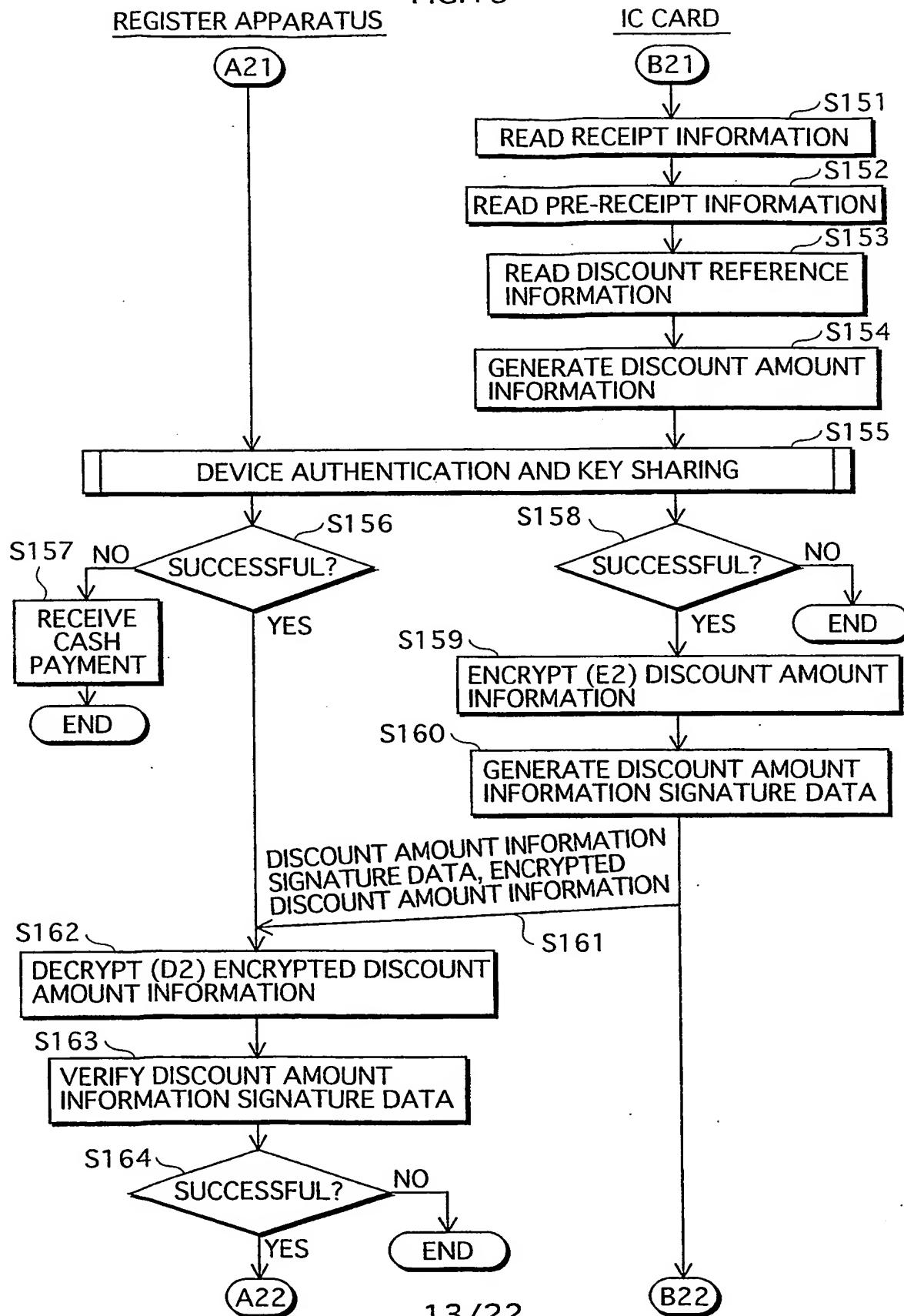


FIG.14

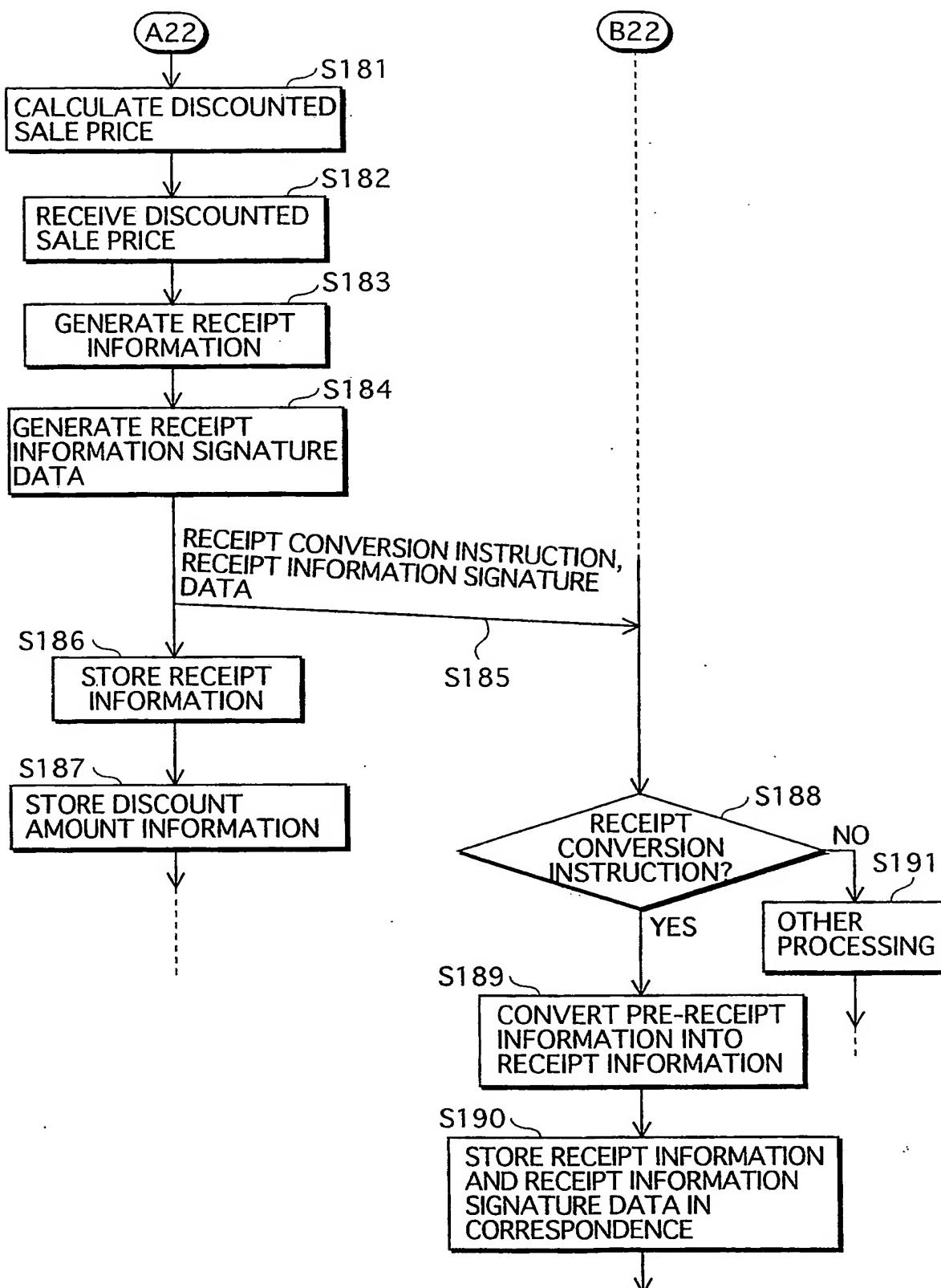


FIG.15
DEVICE AUTHENTICATION AND KEY SHARING

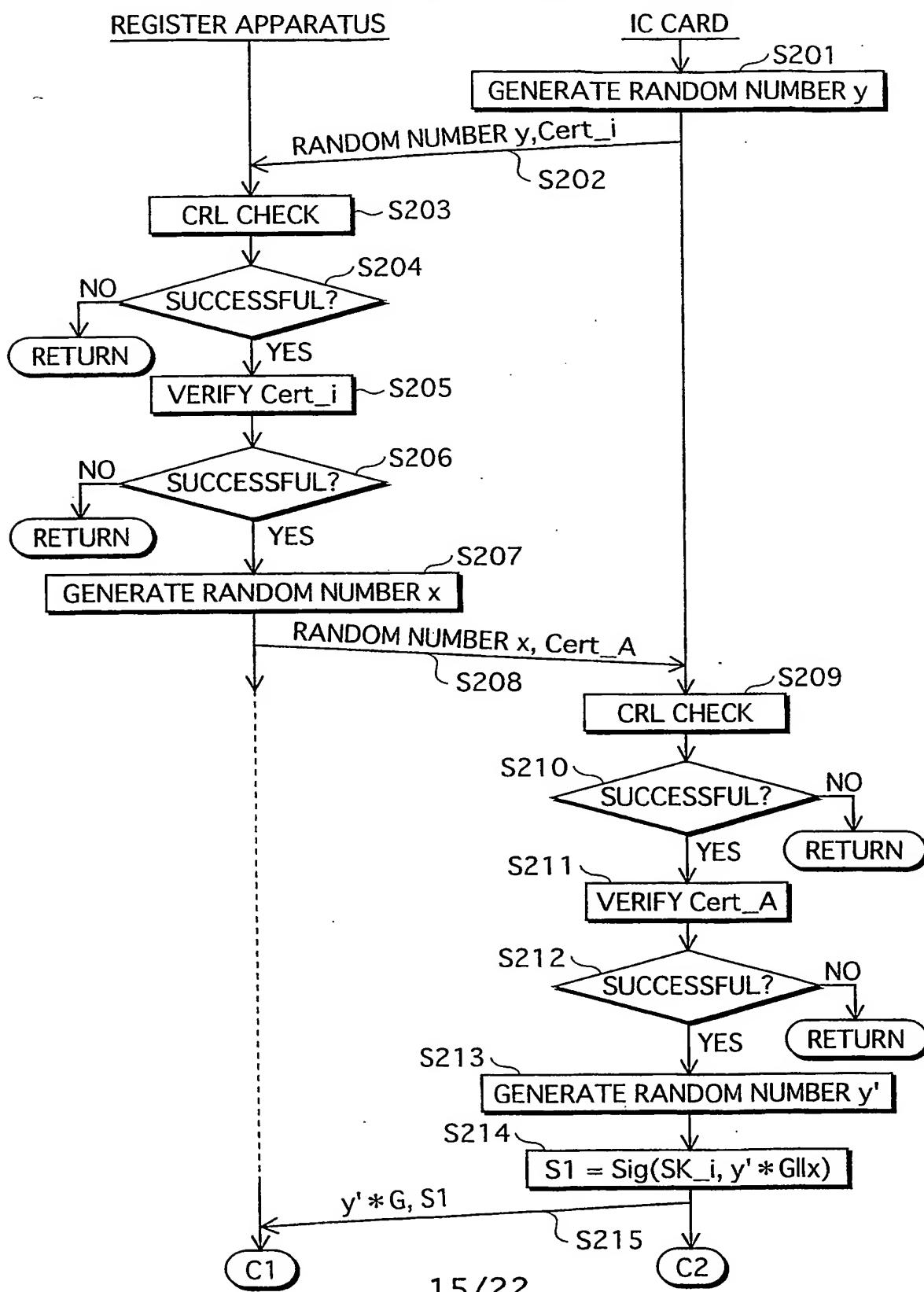


FIG.16

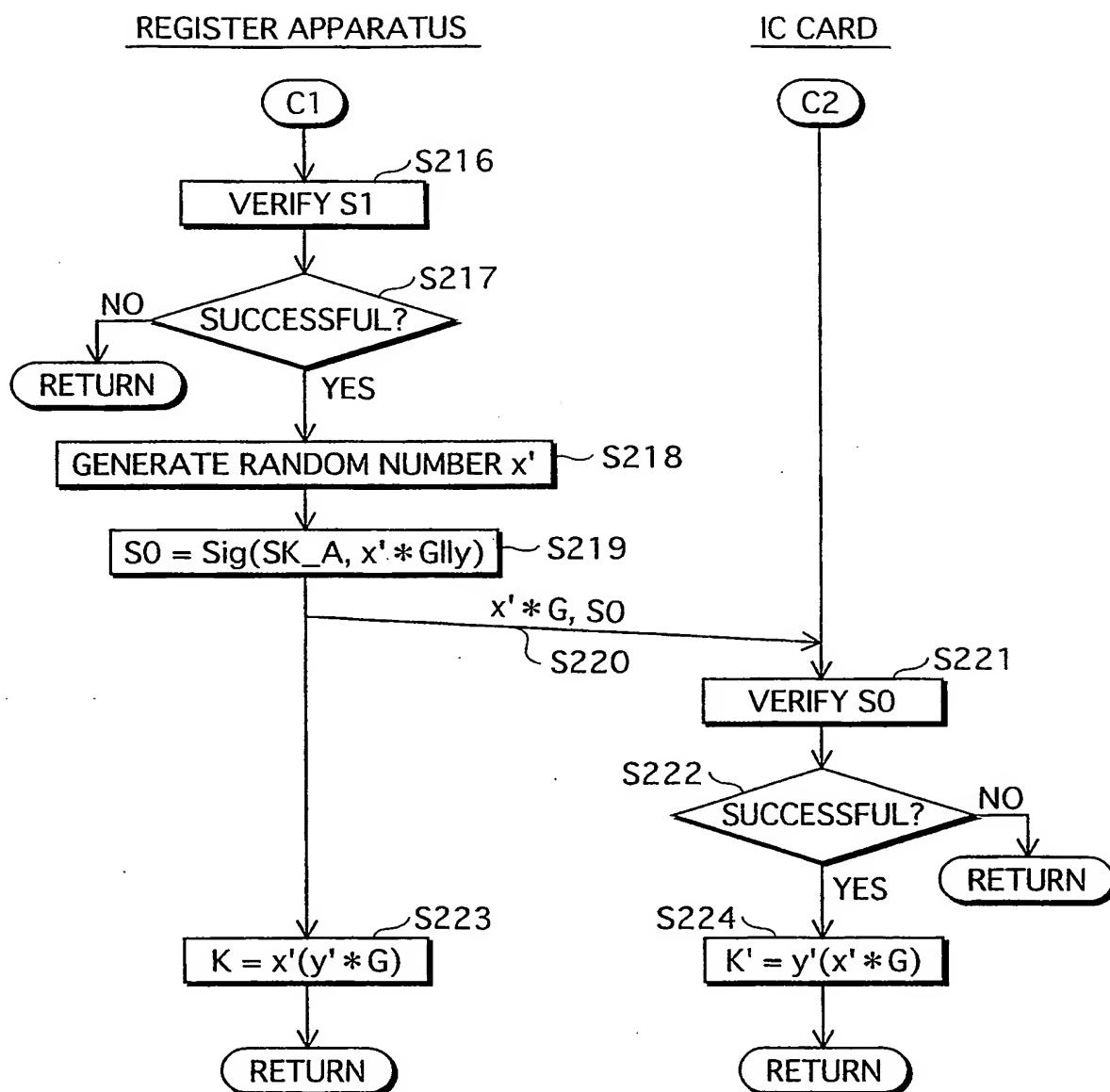


FIG.17

RECEIPT INFORMATION AND DISCOUNT
AMOUNT INFORMATION TRANSFER

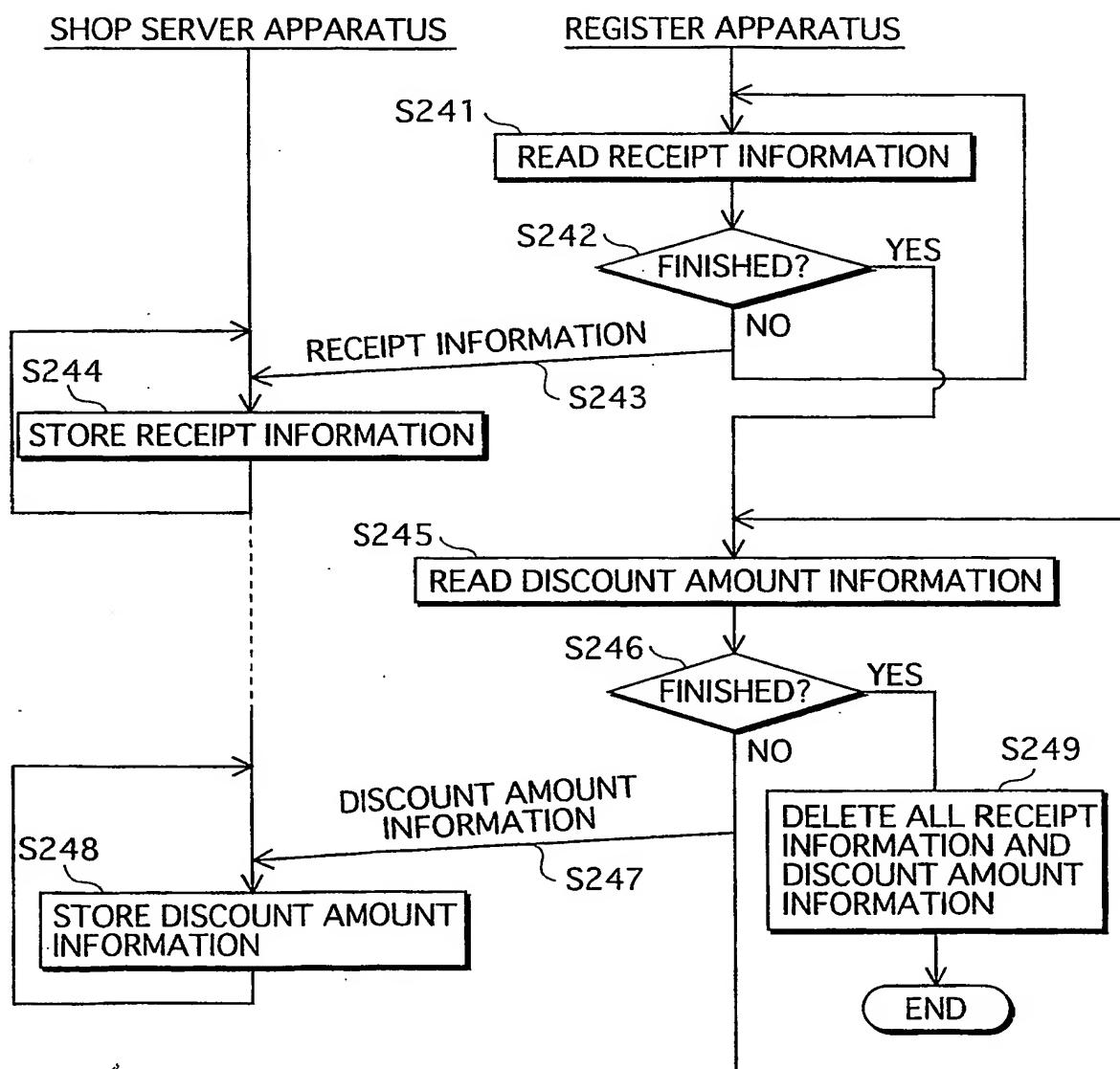


FIG.18

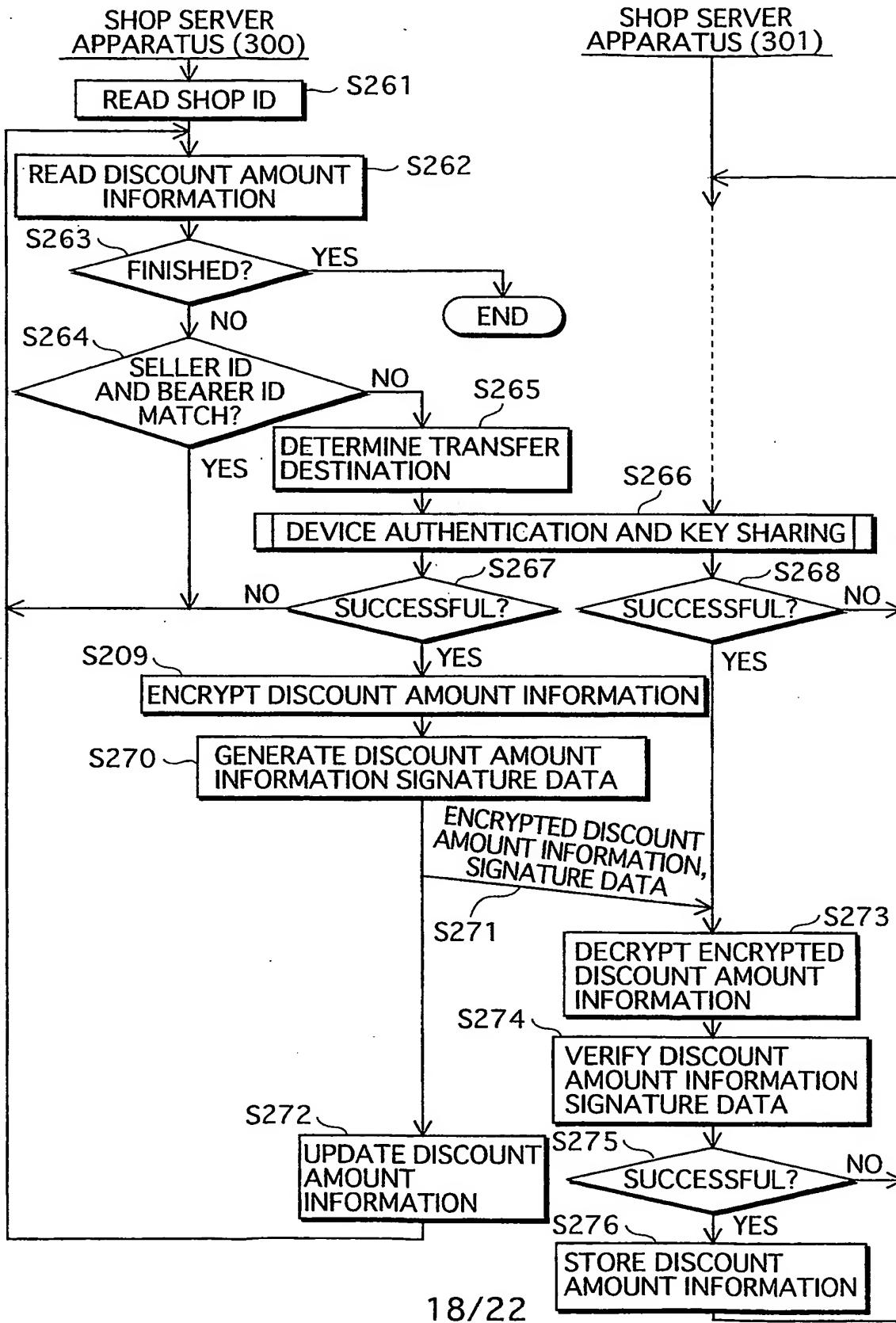
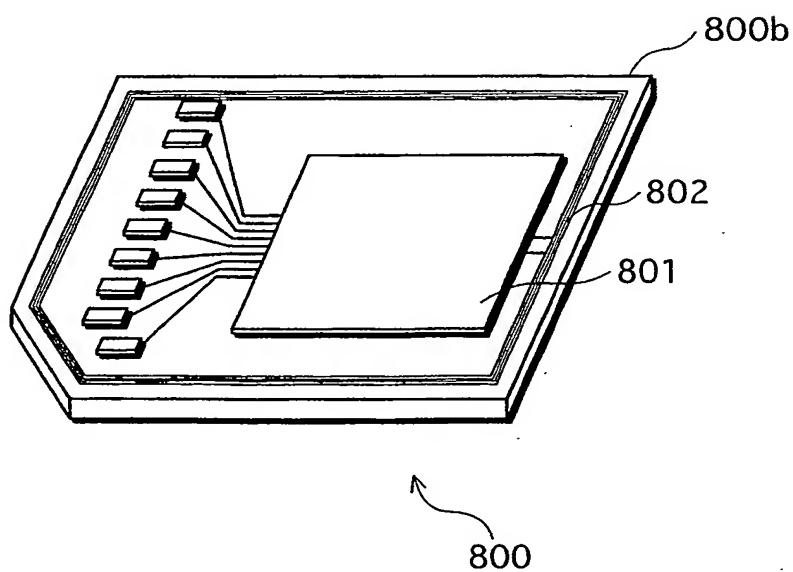
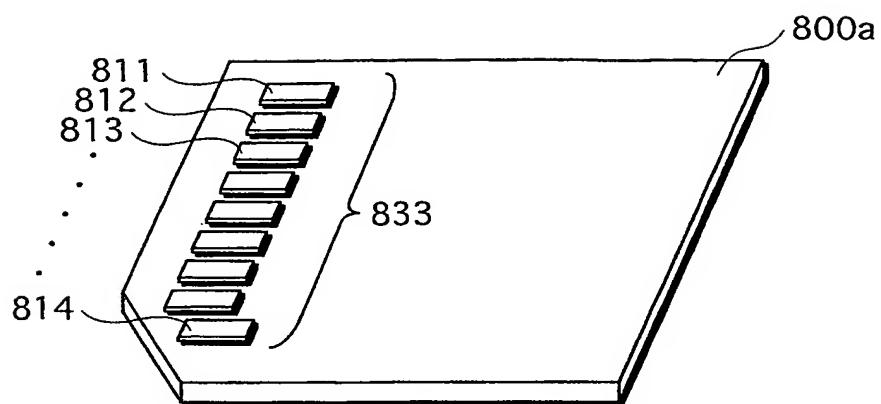
DISCOUNT AMOUNT INFORMATION SETTLEMENT

FIG.19



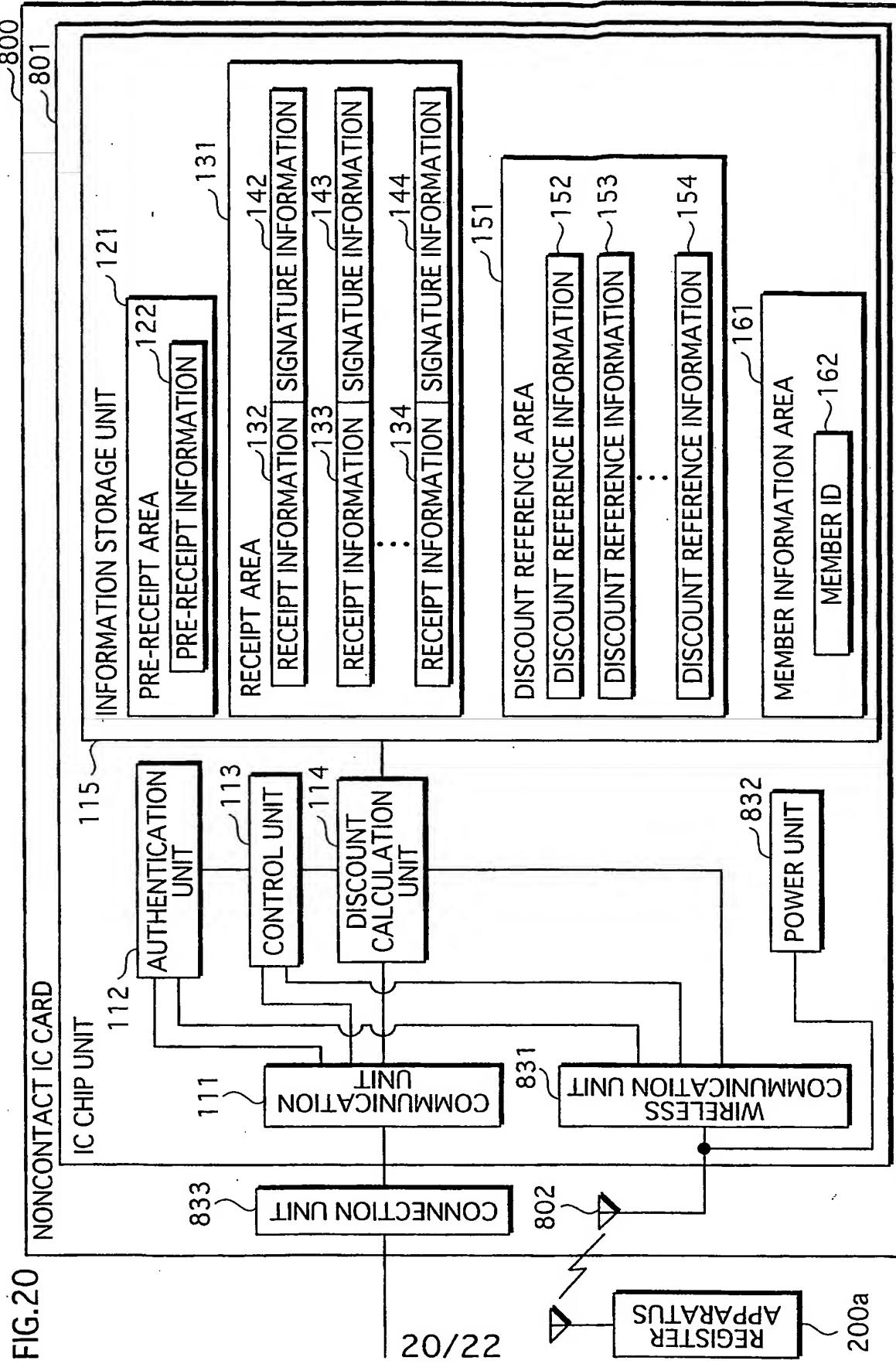


FIG.21

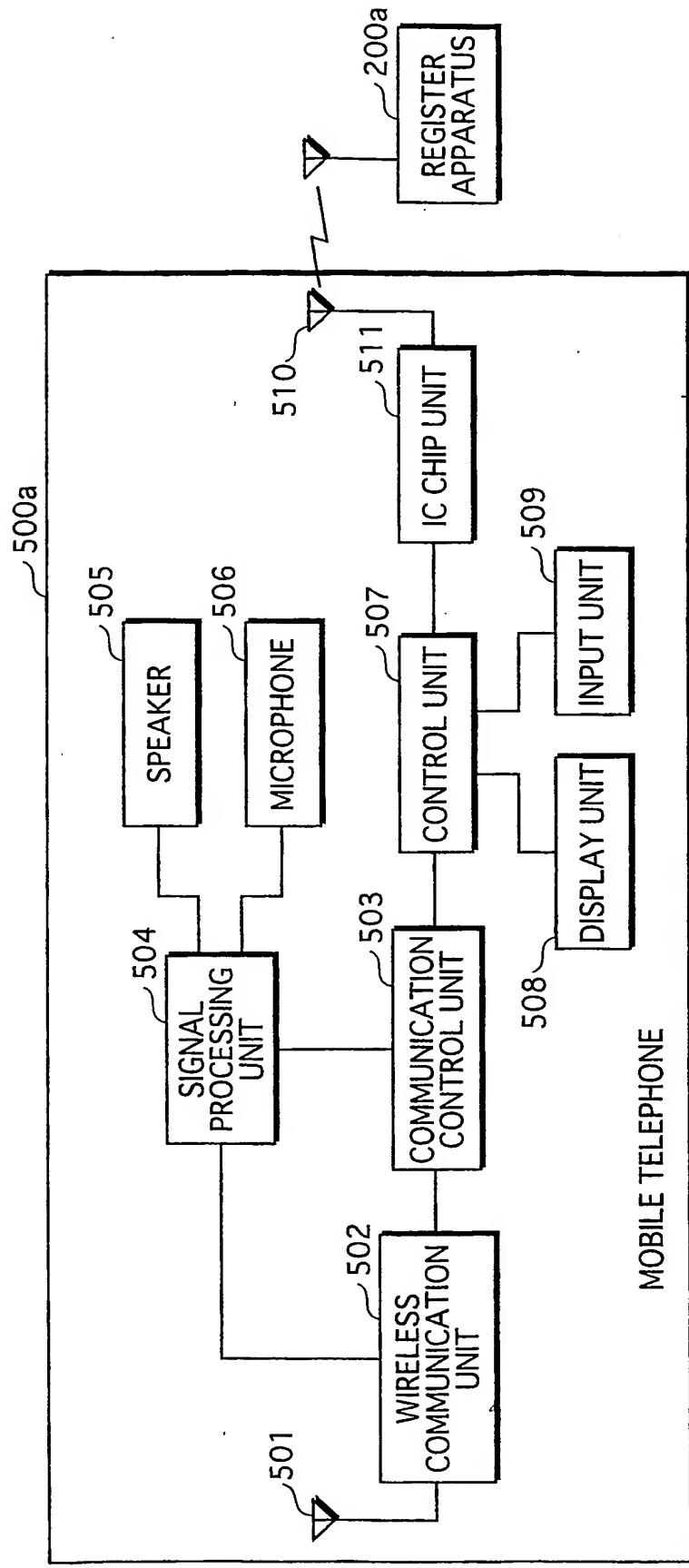


FIG.22

